ABSTRACTS

【Abstract】

The present invention discloses a liquid crystal display device and fabricating method thereof that can increase an aperture ratio and increase repair efficiency.

The liquid crystal display device comprises a main thin film transistor having a common source electrode supplied with a data signal, a pixel drain electrode opposed to the common source electrode as having a predetermined main channel between them and connected to a first pixel electrode for driving the liquid crystal of a first horizontal line, and a gate electrode for switching on/off the main channel in response to a scan signal; and an auxiliary thin film transistor having the common source electrode and the gate electrode in the main thin film transistor, and a repair drain electrode opposed to the common source electrode as having a predetermined auxiliary channel between them and formed to overlap with a second pixel electrode for driving the liquid crystal of a second horizontal line, wherein active layers forming the main channel and the auxiliary channel are connected to each other in the common source electrode area.

According to the present invention, the source electrode of the auxiliary thin film transistor used when repair is formed commonly with the source electrode of the main thin film transistor, thereby increasing the display area by an area of a conventional repair source electrode and so implementing a high aperture ratio.

【Representative Drawing】

Fig. 3